

EXHIBIT X



LEGACY REPORT

ER-6106

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Legacy report on the 1997 *Uniform Building Code*™, the 2000 *International Building Code*® and the 2000 *International Residential Code*®

DIVISION: 06—WOOD AND PLASTICS
Section: 06600—Plastic Fabrications

DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07321—Roof Tile Accessories

BATTENUP BATTENS

BATTENS PLUS, INC.
3929 HEIGHTS COURT
CAMERON PARK, CALIFORNIA 95682

INTEPLAST GROUP, LTD.
101 INTEPLAST BLVD.
LOLITA, TEXAS 77971

1.0 SUBJECT

BattenUP Battens

2.0 DESCRIPTION**2.1 General:**

BattenUP Battens are plastic battens used in clay or concrete tile roof systems. The BattenUP Battens are alternatives to the battens specified in Table 15-D-2 of the 1997 *Uniform Building Code*™ (UBC), Table 1507.3.7 of the 2000 *International Building Code*® (IBC), and Table R905.3.7 of the 2000 *International Residential Code*® (IRC). The use of these battens in lieu of wood battens does not alter the roof classification of the clay or concrete tile roof covering for new construction or where the old roof covering has been removed and the roof construction is as described in this report.

2.2 Materials:

2.2.1 Battens: The battens are made from extruded polypropylene, and are 1½ inches (38 mm) wide by ½ inch thick (12.7 mm), and 48 inches (1219 mm) long. The battens are manufactured with 0.044-inch-thick (1.12 mm) top and bottom flanges, and 0.038-inch-thick (0.97 mm) vertical stiffeners that form openings measuring 0.372 inch wide by 0.412 inch high (9.4 by 10.5 mm) between the top and bottom surfaces of the batten. See Figure 1.

2.2.2 Roof Tiles: The roof tiles shall be conventional clay or concrete interlocking tiles with anchor lugs and shall be recognized in a current ICC-ES evaluation report.

2.3 Installation:

The battens shall be installed horizontally directly to solid sheathing, parallel to the eave and spaced in accordance with the roof tile manufacturer's instructions. The open section of the battens shall be oriented to allow water to drain down the slope and pass through the batten openings. The battens are fastened to the roof deck with minimum 1¼-inch-long-by-7/16-inch-crown (31.7 mm by 11.1 mm) No. 16 gage, corrosion-resistant staples spaced at 6 inches (152 mm) on center. The staple crown is installed parallel to the length of the batten (across the vertical stiffeners), starting and ending 1 inch (25 mm) from each end of the batten. The tiles shall be installed with the projecting anchor tile lugs fully engaged with the batten. The tiles shall be attached through the batten to the roof deck and in accordance with the applicable code except for "S"-shaped tiles, for which all tiles shall be fastened. See Figures 1 and 2.

2.4 Identification:

Bundled battens are labeled with the Battens Plus, Inc., name and address, the product name (BattenUP Battens) and product code, the job number, the name of the inspection agency (Ramtech Laboratories) and the evaluation report number (ER-6106).

3.0 EVIDENCE SUBMITTED

Reports of tests in accordance with the ICC-ES Acceptance Criteria for Plastic Battens Used in Clay or Concrete Tile Roof Systems (AC200), dated July 2002; descriptive data; and a quality control manual.

4.0 FINDINGS

That the BattenUP Battens described in this report comply with the 1997 *Uniform Building Code*™, the 2000 *International Building Code*®, and the 2000 *International Residential Code*®, subject to the following conditions:

- 4.1 The battens are installed in accordance with Section 2.3 of this report and the manufacturer's installation instructions.
- 4.2 The battens are manufactured by Inteplast Group, Ltd., in Lolita, Texas, under a quality control program with inspections by Ramtech Laboratories, Inc. (AA-655).

This report is subject to re-examination in one year.

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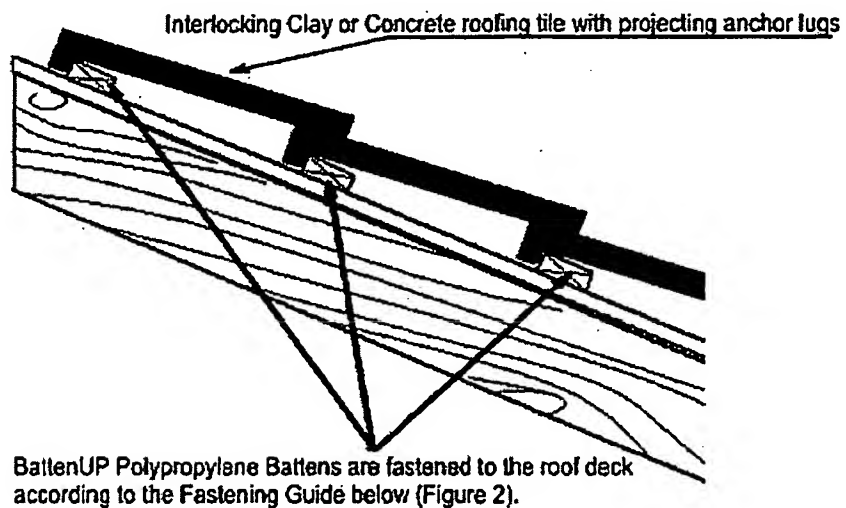


FIGURE 1—TYPICAL SECTION

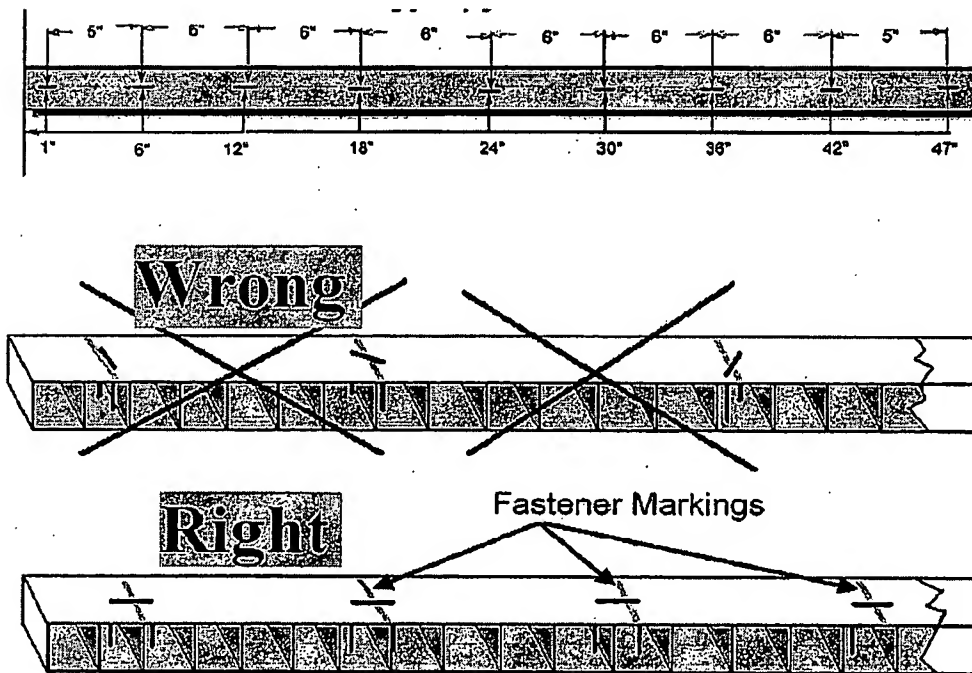


FIGURE 2—FASTENING GUIDE, BATTENUP POLYPROPYLENE BATTEN